

# SERVICE MANUAL

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COMPACT DISC STEREO  
RADIO CASSETTE RECORDER

BASIC TAPE MECHANISM : TN-21ZVC-2000  
BASIC CD MECHANISM : DA11T3C

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- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" CSD-A310 (LH, HA), (S/M Code No. 09-003-428-2T1) and CSD-A310 (K), (S/M Code No. 09-003-428-2T2).

## SPECIFICATIONS

### <Tuner section>

#### Frequency range

FM: 87.5 MHz to 108.0 MHz  
Antenna: Rod antenna  
AM (MW):  
530 kHz to 1,750 kHz <LH, HA>  
530 kHz to 1,605 kHz <K>  
Antenna: Ferrite bar antenna  
LW: <K>  
150 kHz to 285 kHz  
Antenna: Ferrite bar antenna

### <Deck section>

#### Track format

#### Frequency range

#### Recording system

#### Erasing system

#### Heads

4 tracks, 2 channels  
Normal tape: 50 - 12,500 Hz (EIAJ)  
AC bias  
Magnet erase  
Recording/playback head (1)  
Erasure head (1)

### <CD player section>

#### Disc

#### Scanning method

Compact disc  
Non-contact optical scanner  
(semiconductor laser)

### <General>

#### Speaker

#### Outputs

#### Power output

80 mm cone type (2)  
Headphones jack: stereo mini-jack  
2.5 W + 2.5 W  
(EIAJ 7 ohms, T.H.D. 10 %)  
1.9 W + 1.9 W  
(DIN 1% Rated Power)

#### Power requirements

DC 12 V using eight size C (R14)  
batteries  
AC 110 - 120 V/220 - 240 V  
switchable, 50/60 Hz <LH, HA>  
AC 230 V, 50 Hz <K>

#### Power consumption

#### Dimensions

#### (W x H x D)

#### Weight

16 W  
310 x 171 x 260 mm

2.8 kg (excluding batteries)

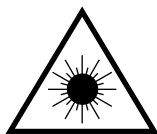
- Design and specifications are subject to change without notice.

## PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

### WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

### VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

### WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

### CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

### ATTENTION

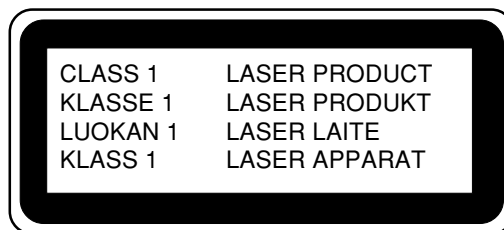
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

### ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

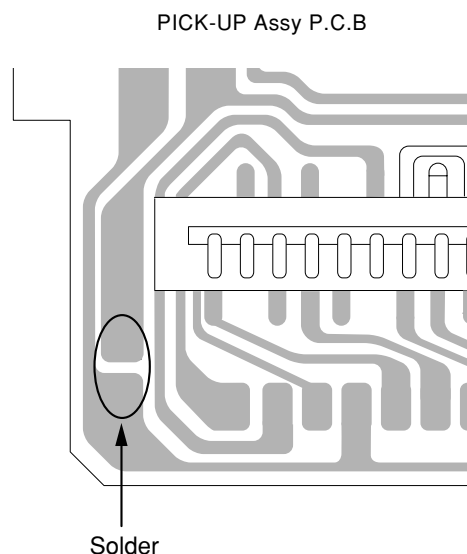


## Precaution to replace Optical block

### (SF-P101NR)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in right figure.



# ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C278	87-010-405-080		CAP, ELECT 10-50V
	87-A20-955-010	IC,LA1828		C279	87-010-385-080		CAP, ELECT 220-25V
	87-A21-064-010	IC,LA4227		C301	87-016-658-000		CAP,E 4700-35 M SMG
	87-A21-520-040	C-IC,M61509FP		C306	87-010-404-080		CAP, ELECT 4.7-50V
	87-A20-446-010	C-IC,LA9241ML		C307	87-010-401-080		CAP, ELECT 1-50V
	87-A20-459-010	C-IC,LC78622ED		C308	87-010-221-080		CAP, ELECT 470-10V
	87-A21-093-010	IC,LA6541D		C309	87-010-197-080		CAP, CHIP 0.01 DM
	8A-CD9-610-010	C-IC,LC865516A-5P16		C310	87-010-248-080		CAP, ELECT 220-10V
	87-A21-431-010	IC,BA4560N		C311	87-010-374-080		CAP, ELECT 47-10V
				C312	87-010-385-080		CAP, ELECT 220-25V
TRANSISTOR				C316	87-010-384-080		CAP, ELECT 100-25V
	89-327-143-080	TR,2SC2714 (0.1W)		C321	87-010-197-080		CAP, CHIP 0.01 DM
	87-026-447-080	TR,2SC1740S R		C322	87-010-263-080		CAP, ELECT 100-10V
	87-026-463-080	TR,2SA933S (0.3W)		C325	87-010-405-080		CAP, ELECT 10-50V
	87-026-213-080	CHIP-TR,DTC114YK		C401	87-010-403-080		CAP, ELECT 3.3-50V
	89-320-011-080	TR,2SC2001 (15W)		C402	87-010-197-080		CAP, CHIP 0.01 DM
	89-112-965-080	TR,2SA1296 (0.75W)		C403	87-010-263-080		CAP, ELECT 100-10V
	87-026-291-080	TR,DTC124XS		C404	87-010-248-080		CAP, ELECT 220-10V
	87-A30-226-010	TR,2SB1655E		C405	87-010-197-080		CAP, CHIP 0.01 DM
	87-026-462-080	TR,2SC1740 S(RS 0.3W)		C406	87-010-374-080		CAP, ELECT 47-10V
	89-318-154-080	TR,2SC1815 (0.4W)		C407	87-010-178-080		CHIP CAP 1000P
	89-109-332-380	TR,2SA933RS		C408	87-010-198-080		CAP, CHIP 0.022
	89-113-187-080	TR,2SA1318TU		C409	87-010-248-080		CAP, ELECT 220-10V
	87-026-239-080	TR,DTC114TK (0.2W)		C410	87-010-263-080		CAP, ELECT 100-10V
	87-026-297-080	TR,DTA144TK		C411	87-A11-177-080		C-CAP,S 0.15-16 K B
	89-317-403-080	TR,2SC1740S		C412	87-010-401-080		CAP, ELECT 1-50V
	87-026-464-010	TR,DTC114TS		C413	87-016-369-080		C-CAP,S 0.033-25 B K
	87-026-464-080	TR,DTC114TS (0.3W)		C414	87-010-405-080		CAP, ELECT 10-50V
				C416	87-010-545-080		CAP, ELECT 0.22-50V
				C417	87-012-157-080		C-CAP,S 330P-50 CH
DIODE				C418	87-010-213-080		C-CAP,S 0.015-50 B
	87-020-465-080	DIODE,1SS133 (110MA)		C419	87-A11-608-080		C-CAP,S 0.33-25 K B
	87-027-607-080	ZENER,HZ7B3L		C420	87-016-369-080		C-CAP,S 0.033-25 B K
	87-A40-466-080	ZENER,MTZJ2.7A		C421	87-A11-177-080		C-CAP,S 0.15-16 K B
	87-070-345-080	DIODE,1N4148		C422	87-010-183-080		C-CAP,S 2700P-50 B
	87-A40-648-080	ZENER,MTZJ8.2A		C423	87-010-956-080		CHIP-CAP,S 0.068-25B
	87-A40-234-080	ZENER,MTZJ5.6A		C424	87-010-993-080		C-CAP,S 0.056-25 B
	87-017-978-080	DIODE,1N4003		C425	87-010-176-080		C-CAP,S 680P-50 SL
	87-017-932-080	ZENER,MTZJ6.2B		C426	87-A11-608-080		C-CAP,S 0.33-25 K B
	87-A40-465-010	DIODE,FR202		C428	87-010-197-080		CAP, CHIP 0.01 DM
MAIN C.B				C429	87-010-186-080		CAP,CHIP 4700P
C30	87-010-260-080	CAP, ELECT 47-25V		C430	87-012-156-080		C-CAP,S 220P-50 CH
C211	87-010-805-080	CAP, S 1-16		C431	87-010-545-080		CAP, ELECT 0.22-50V
C212	87-010-805-080	CAP, S 1-16		C432	87-010-374-080		CAP, ELECT 47-10V
C215	87-016-460-080	C-CAP,S 0.22-16 B		C433	87-010-401-080		CAP, ELECT 1-50V
C216	87-016-460-080	C-CAP,S 0.22-16 B		C434	87-010-184-080		CHIP CAPACITOR 3300P(K)
C231	87-010-213-080	C-CAP,S 0.015-50 B		C435	87-010-197-080		CAP, CHIP 0.01 DM
C232	87-010-213-080	C-CAP,S 0.015-50 B		C436	87-010-374-080		CAP, ELECT 47-10V
C233	87-A10-201-080	C-CAP,S0.33-16 KB		C437	87-010-404-080		CAP, ELECT 4.7-50V
C234	87-A10-201-080	C-CAP,S0.33-16 KB		C438	87-016-669-080		C-CAP,S 0.1-25 K B
C235	87-016-669-080	C-CAP,S 0.1-25 K B		C439	87-010-178-080		CHIP CAP 1000P
C236	87-016-669-080	C-CAP,S 0.1-25 K B		C440	87-010-145-080		C-CAP,S 1P-50 CH
C237	87-010-408-080	CAP, ELECT 47-50V		C441	87-010-197-080		CAP, CHIP 0.01 DM
C239	87-010-197-080	CAP, CHIP 0.01 DM		C442	87-010-312-080		C-CAP,S 15P-50 CH
C240	87-010-197-080	CAP, CHIP 0.01 DM		C445	87-012-368-080		C-CAP,S 0.1-50 F
C247	87-010-401-080	CAP, ELECT 1-50V		C446	87-012-368-080		C-CAP,S 0.1-50 F
C248	87-010-401-080	CAP, ELECT 1-50V		C447	87-012-368-080		C-CAP,S 0.1-50 F
C251	87-010-401-080	CAP, ELECT 1-50V		C448	87-010-315-080		C-CAP,S 27P-50 CH
C263	87-010-178-080	CHIP CAP 1000P		C450	87-012-140-080		CAP 470P
C264	87-010-178-080	CHIP CAP 1000P		C451	87-012-156-080		C-CAP,S 220P-50 CH
C265	87-010-263-080	CAP, ELECT 100-10V		C455	87-010-247-080		CAP, ELECT 100-50V
C266	87-010-263-080	CAP, ELECT 100-10V		C457	87-010-312-080		C-CAP,S 15P-50 CH
C267	87-010-112-080	CAP, ELECT 100-16V		C458	87-010-312-080		C-CAP,S 15P-50 CH
C268	87-010-112-080	CAP, ELECT 100-16V		C459	87-010-263-080		CAP, ELECT 100-10V
C271	87-010-235-080	CAP,E 470-16 SME		C460	87-015-819-080		CAPACITOR,0.01
C272	87-010-235-080	CAP,E 470-16 SME		C461	87-010-197-080		CAP, CHIP 0.01 DM
				C462	87-010-248-080		CAP, ELECT 220-10V
				C463	87-010-190-080		S CHIP F 0.01
				C465	87-010-404-080		CAP, ELECT 4.7-50V
				C466	87-012-368-080		C-CAP,S 0.1-50 F

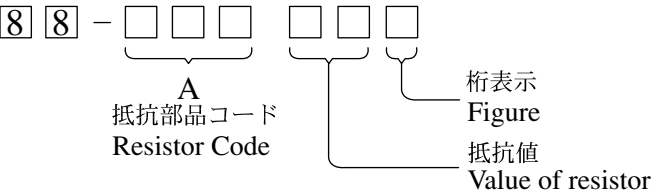
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C467	87-010-263-080		CAP, ELECT 100-10V	CNA801	8A-CDB-626-010		CONN ASSY,4P CASS HEAD
C469	87-012-154-080		C-CAP,S 150P-50 CH	CNA802	8A-CDB-625-010		CONN ASSY,4P CASS MECHA
C470	87-010-544-080		CAP, ELECT 0.1-50V	FC401	8A-CDB-623-010		FF-CABLE, 16P 1.0 CD-RF
C471	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	L401	87-003-102-080		COIL, 10UH
C472	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	L404	87-003-152-080		COIL, 100UH
C473	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	L801	87-007-342-010		COIL,OSC 85K BIAS
C474	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	R840	87-029-124-010		RES,FUSE 2.2-1/4
C475	87-010-197-080		CAP, CHIP 0.01 DM	SFR430	87-024-437-080		SFR100K,RH063EC
C476	87-010-236-080		CAP,E 1000-10 SME	SW801	88-CT6-619-010		BACK SLIDE SW 6P2T SHORTIN
C477	87-010-197-080		CAP, CHIP 0.01 DM	X401	8Z-CD5-633-010		VIB, CER16.93MHZ FCR16.93M2
C478	87-010-263-080		CAP, ELECT 100-10V				
C479	87-010-197-080		CAP, CHIP 0.01 DM	TUNER C.B			
C480	87-010-221-080		CAP, ELECT 470-10V				
C481	87-010-405-080		CAP, ELECT 10-50V	C1	87-010-314-080		C-CAP,S 22P-50V
C482	87-010-405-080		CAP, ELECT 10-50V	C2	87-010-316-080		C-CAP,S 33P-50 CH
C489	87-012-368-080		C-CAP,S 0.1-50 F	C3	87-010-314-080		C-CAP,S 22P-50V
C490	87-012-368-080		C-CAP,S 0.1-50 F	C4	87-010-148-080		CAP, CHIP S 75P SL<EXCEPT K>
C491	87-010-197-080		CAP, CHIP 0.01 DM	C5	87-010-378-080		CAP, ELECT 10-16V
C492	87-010-221-080		CAP, ELECT 470-10V				
C494	87-010-190-080		S CHIP F 0.01	C7	87-012-156-080		C-CAP,S 220P-50 CH
C501	87-012-368-080		C-CAP,S 0.1-50 F	C8	87-010-197-080		CAP, CHIP 0.01 DM
C502	87-010-322-080		C-CAP,S 100P-50 CH	C9	87-010-311-080		CAP 12P
C503	87-010-322-080		C-CAP,S 100P-50 CH	C10	87-010-197-080		CAP, CHIP 0.01 DM
C504	87-010-322-080		C-CAP,S 100P-50 CH	C11	87-010-152-080		C-CAP,S 8P-50 CH
C505	87-010-322-080		C-CAP,S 100P-50 CH				
C506	87-010-322-080		C-CAP,S 100P-50 CH	C12	87-010-314-080		C-CAP,S 22P-50V
C510	87-016-669-080		C-CAP,S 0.1-25 K B	C13	87-010-322-080		C-CAP,S 100P-50 CH
C801	87-010-248-080		CAP, ELECT 220-10V	C14	87-010-148-080		CAP, CHIP S 75P SL
C805	87-012-365-080		C-CAP,S 0.027-25VBK	C15	87-016-669-080		C-CAP,S 0.1-25 K B
C806	87-012-365-080		C-CAP,S 0.027-25VBK	C16	87-010-178-080		CHIP CAP 1000P
C807	87-010-405-080		CAP, ELECT 10-50V	C17	87-016-669-080		C-CAP,S 0.1-25 K B
C808	87-010-405-080		CAP, ELECT 10-50V	C18	87-010-198-080		CAP, CHIP 0.022
C809	87-010-405-080		CAP, ELECT 10-50V	C19	87-016-669-080		C-CAP,S 0.1-25 K B
C810	87-010-405-080		CAP, ELECT 10-50V	C20	87-010-400-080		CAP, ELECT 0.47-50V
C811	87-010-178-080		CHIP CAP 1000P	C21	87-010-403-080		CAP, ELECT 3.3-50V
C812	87-010-178-080		CHIP CAP 1000P	C22	87-010-197-080		CAP, CHIP 0.01 DM
C816	87-010-180-080		C-CER 1500P	C24	87-010-188-080		CAP,CHIP 6800P
C817	87-010-180-080		C-CER 1500P	C25	87-010-188-080		CAP,CHIP 6800P
C819	87-010-426-080		C-CAP,S 0.012-25 B	C26	87-016-669-080		C-CAP,S 0.1-25 K B
C820	87-010-426-080		C-CAP,S 0.012-25 B	C27	87-016-669-080		C-CAP,S 0.1-25 K B
C821	87-010-401-080		CAP, ELECT 1-50V	C28	87-010-992-080		C-CAP,S 0.047-25 B
C822	87-010-401-080		CAP, ELECT 1-50V	C29	87-010-992-080		C-CAP,S 0.047-25 B
C823	87-010-181-080		CAP,CHIP S 1800P	C30	87-010-248-080		CAP, ELECT 220-10V
C824	87-010-181-080		CAP,CHIP S 1800P	C31	87-010-379-080		CAP, ELECT 22-16V
C829	87-010-178-080		CHIP CAP 1000P	C32	87-010-197-080		CAP, CHIP 0.01 DM
C830	87-010-178-080		CHIP CAP 1000P	C33	87-010-197-080		CAP, CHIP 0.01 DM
C831	87-010-198-080		CAP, CHIP 0.022	C34	87-010-197-080		CAP, CHIP 0.01 DM
C833	87-018-195-080		CAP, CER 1200P-16V	C35	87-010-197-080		CAP, CHIP 0.01 DM
C834	87-010-248-080		CAP, ELECT 220-10V	C36	87-010-263-080		CAP, ELECT 100-10V
C835	87-010-322-080		C-CAP,S 100P-50 CH	C37	87-010-197-080		CAP, CHIP 0.01 DM
C836	87-010-322-080		C-CAP,S 100P-50 CH	C38	87-010-197-080		CAP, CHIP 0.01 DM
C843	87-010-197-080		CAP, CHIP 0.01 DM	C41	87-010-318-080		C-CAP,S 47P-50 CH<K>
C844	87-018-124-080		CAP, CER 270P-50V	C44	87-010-302-080		C-CAP,S 270P-50 CH<K>
C845	87-010-178-080		CHIP CAP 1000P	C51	87-010-197-080		CAP, CHIP 0.01 DM
C846	87-010-263-080		CAP, ELECT 100-10V	C56	87-010-152-080		C-CAP,S 8P-50 CH<EXCEPT K>
C851	87-010-186-080		CAP,CHIP 4700P	CF1	87-A90-128-010		FLTR,AM IF CFAL-455
C852	87-010-178-080		CHIP CAP 1000P	CF2	82-785-747-010		CF MS2 GHY R
C853	87-018-211-080		CAP,TC U 0.01-50 Z F<K>	CF3	82-785-747-010		CF MS2 GHY R
C853	87-A11-145-080		CAP,TC U 0.01-50 Z F<EXCEPT K>	CN2	87-099-194-010		CONN,6P 6216V
CN201	87-099-018-010		CONN,16P	D3	87-A40-128-080		C-VARI-CAP,HVU202A
CN202	87-A60-685-010		CONN,4P H WHT EH	L2	87-A50-560-010		COIL,FM BPF(ACD)
CN205	87-A60-109-010		CONN,2P V S2M-2W	L3	8A-CD9-660-010		BAR-ANT,MW 2B-ACD(COI)<EXCEPT K>
CN301	87-099-416-010		CONN,3P EH H WHT	L3	8A-CD9-661-010		BAR-ANT,MW/LW 3B-ACD(COI)<K>
CN401	87-A60-424-010		CONN,16P V TOC-B	L4	87-A50-562-010		COIL,FM RF EX(ACD)
CN403	87-099-201-010		CONN,8P 6216 H	L5	87-A50-564-010		COIL,FM OSC EX(ACD)
CN801	87-A60-110-010		CONN,4P V S2M-4W	L6	87-A50-337-010		COIL,AM OSC (TOKO)<EXCEPT K>
CN802	87-049-469-010		CONN,4P V	L7	87-A50-336-010		COIL,AM IFT (TOKO)
CNA205	8A-CD9-626-010		CONN ASSY,2P DOOR	L8	87-A50-335-010		COIL,FM IFT (TOKO)
CNA302	8A-CDB-627-010		CONN ASSY,6P MA-TUNER	L9	87-A50-334-010		COIL,FM DET (TOKO)
CNA402	8A-CDB-622-010		CONN ASSY,6P CD-MOTOR	L10	87-005-849-080		COIL,10UH (CECS)
				L16	87-A50-569-010		COIL,LW OSC-ACD(COI)<K>
				L17	87-A50-337-010		COIL,AM OSC (TOKO)<K>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S1	87-A91-549-010		SW,SL-6-4 SK64D01G06<K>	VOL C.B			
SW1	87-A91-548-010		SW,SL-2-3 SK23E01G06<EXCEPT K>	CN607	84-722-632-010		CONN,2P H
TC5	87-011-221-080		TRIMMER,CER 30P 6.15X5.9 VC<K>	S614	8Z-CT6-636-010		SW,TACT EVQJAC04M
TC6	87-011-221-080		TRIMMER,CER 30P 6.15X5.9 VC<K>	S615	8Z-CT6-636-010		SW,TACT EVQJAC04M
VC1	87-A91-635-010		TUN-CAP,20P-140P E-ACD(MITSUMI				
FRONT C.B				PHONE C.B			
C601	87-010-313-080		CAP, CHIP 18P	CN204	87-049-469-010		CONN,4P V
C602	87-010-315-080		C-CAP,S 27P-50 CH	CNA203	8A-CDB-624-010		CONN ASSY,3P H.P
C603	87-010-319-080		C-CAP,S 56P-50 CH	CNA204	8A-CDB-633-010		CONN ASSY,4P SPKR
C604	87-010-317-010		CHIP CAP,S 39P CH	J251	87-009-216-010		JACK, DIA 3.5
C605	87-010-263-080		CAP, ELECT 100-10V	BATT A C.B			
C606	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	C901	87-018-205-080		CAP, CERA-SOL 0.022
C607	87-015-819-080		CAPACITOR,0.01	C902	87-018-205-080		CAP, CERA-SOL 0.022
C608	87-010-405-080		CAP, ELECT 10-50V	C903	87-018-205-080		CAP, CERA-SOL 0.022
C609	87-010-400-080		CAP, ELECT 0.47-50V	C904	87-018-205-080		CAP, CERA-SOL 0.022
C611	87-010-248-080		CAP, ELECT 220-10V	CNA901	8A-CDB-621-010		CONN ASSY,3P POWER
C613	87-012-368-080		C-CAP,S 0.1-50 F	△	PR901	87-A90-092-080	PROTECTOR,2.5A 491
C614	87-010-312-080		C-CAP,S 15P-50 CH		PT901	8A-CDB-653-010	PT,E 2.5W EI48X23<K>
CN601	87-099-033-010		16P 6216 H		PT901	8A-CDB-651-010	PT,H 2.5W EI48X23<EXCEPT K>
CN602	87-099-201-010		CONN,8P 6216 H	BATT B C.B			
CNA604	8A-CDB-616-010		CONN ASSY,6P KEY FUNCT	CD MOTOR C.B			
CNA606	8A-CDB-617-010		CONN ASSY,2P KEY VOL	M2	9X-262-576-910		MOTOR GEAR ASSY
FC601	8A-CDB-618-010		FF-CABLE, 16P 1.25 FR-MAIN	PIN3	91-564-722-110		CONNECTOR 6P
FC602	8A-CDB-619-010		FF-CABLE, 8P 1.25 CD-FR	SW1	91-572-085-120		LEAF SW
L601	87-003-102-080		COIL, 10UH				
LED602	88-CD6-630-010		LED,934ID RED				
LED608	88-CD6-630-010		LED,934ID RED				
LED611	87-CD8-616-010		LED,SA36-11 HWA-11.0				
S601	8Z-CT6-636-010		SW,TACT EVQJAC04M				
S602	8Z-CT6-636-010		SW,TACT EVQJAC04M				
S603	8Z-CT6-636-010		SW,TACT EVQJAC04M				
S604	8Z-CT6-636-010		SW,TACT EVQJAC04M				
S605	8Z-CT6-636-010		SW,TACT EVQJAC04M				
X601	87-030-273-010		VIB,XTAL 32.768K5PPM				
X602	87-030-376-080		VIB,CER CSA5.76MG200				
KEY FUNCT C.B							
CN605	87-099-417-010		CONN 6P EH H WHT				
LED606	88-CD6-630-010		LED,934ID RED				
LED607	88-CD6-630-010		LED,934ID RED				
LED610	88-CD6-631-010		LED,934GD GRN				
S606	8Z-CT6-636-010		SW,TACT EVQJAC04M				
S607	8Z-CT6-636-010		SW,TACT EVQJAC04M				
S608	8Z-CT6-636-010		SW,TACT EVQJAC04M				
S609	8Z-CT6-636-010		SW,TACT EVQJAC04M				
S611	8Z-CT6-636-010		SW,TACT EVQJAC04M				

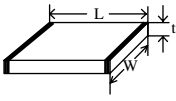
チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗  
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A
				外形／Form	L	W	t	Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

2SA1296  
2SC1815



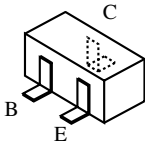
E C B

2SC2001  
2SA1318TU

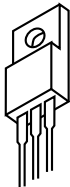


E C B

2SC1740S/SR/SRS  
2SA933S/RS  
DTC124XS  
DTC114TS



DTC114YK  
DTC114TK  
DTA144TK  
2SC2714



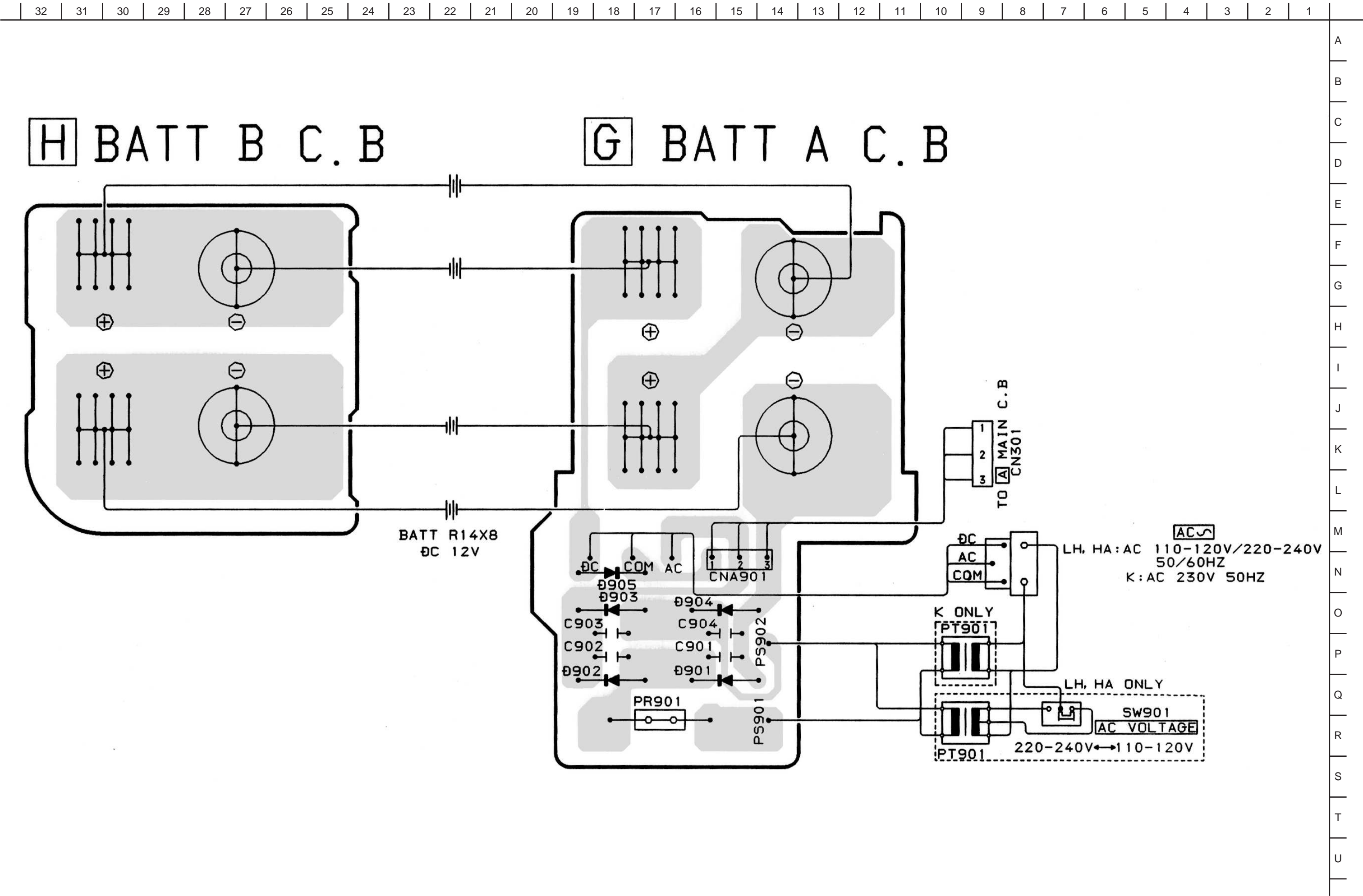
B C E

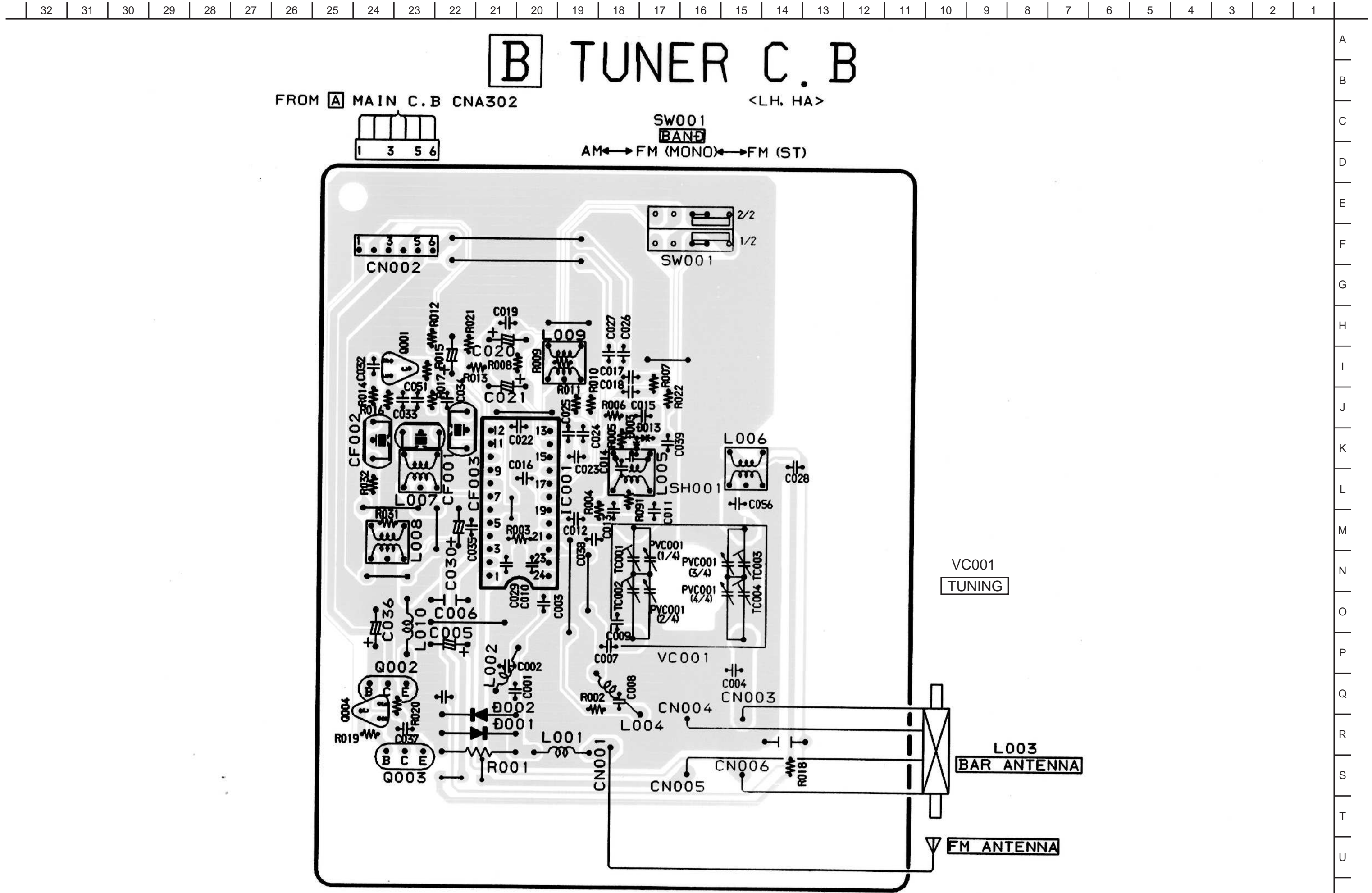
2SB1655E











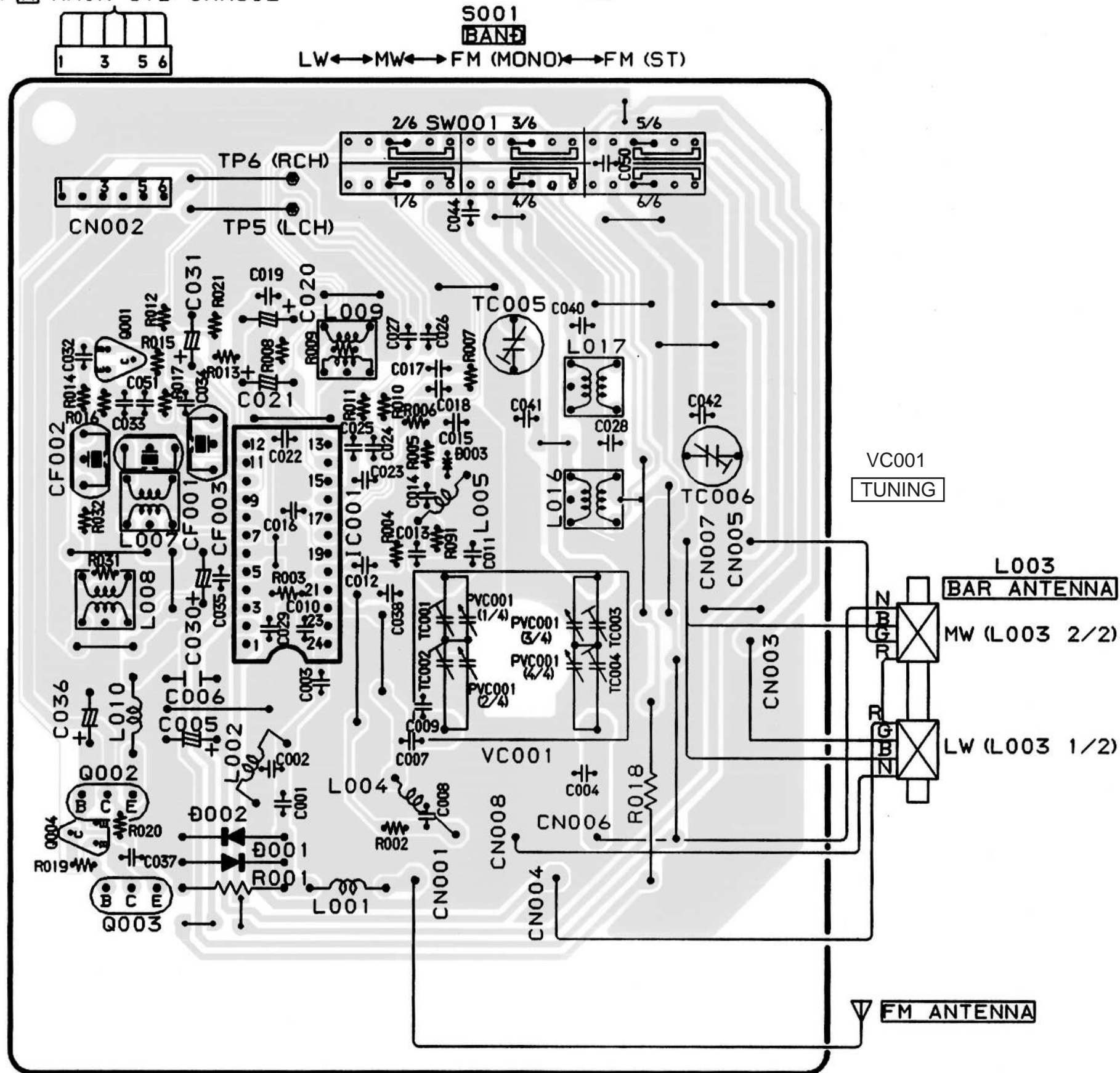


32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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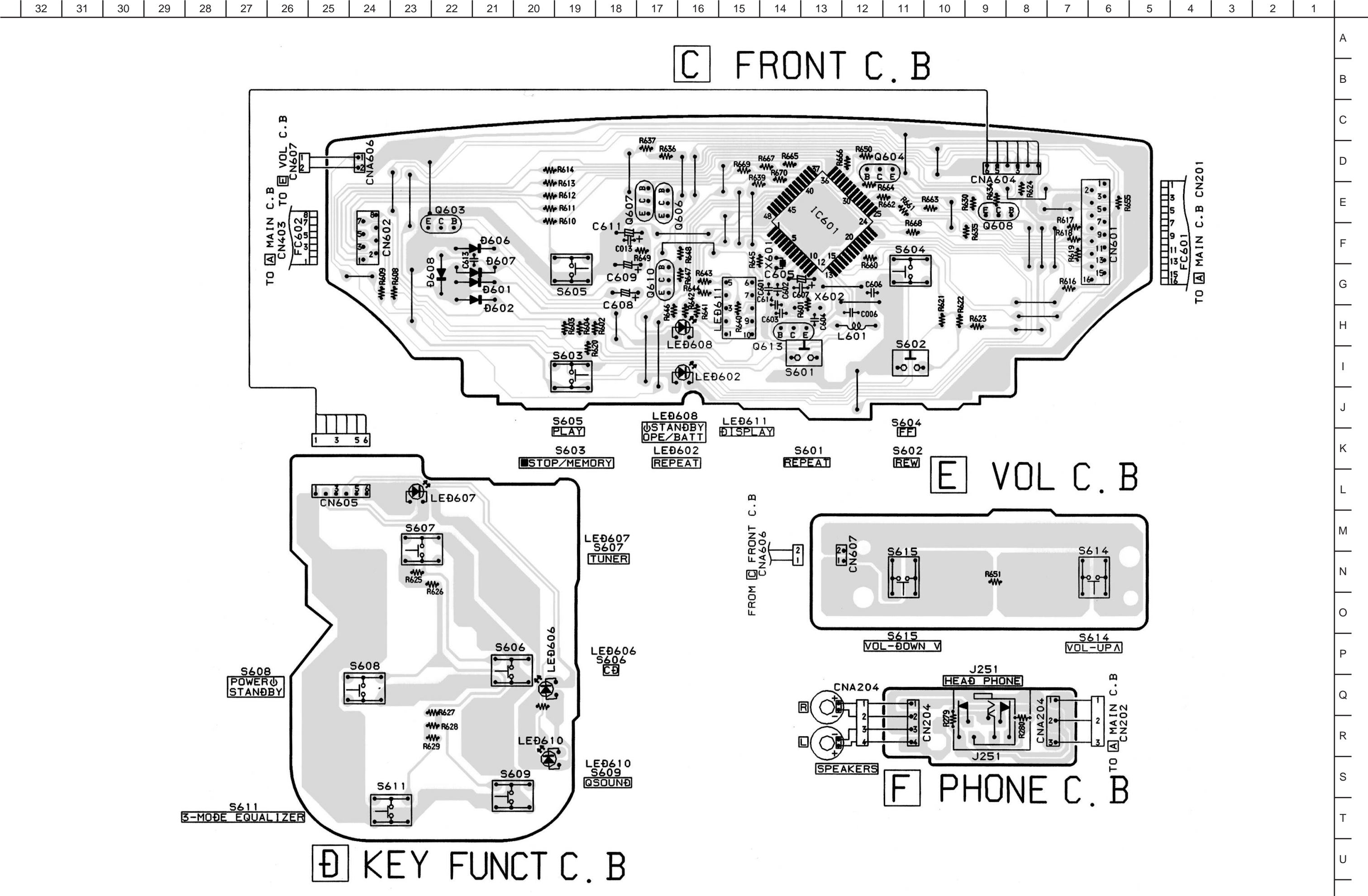
# B TUNER C.B

FROM A MAIN C.B CNA302

<K>

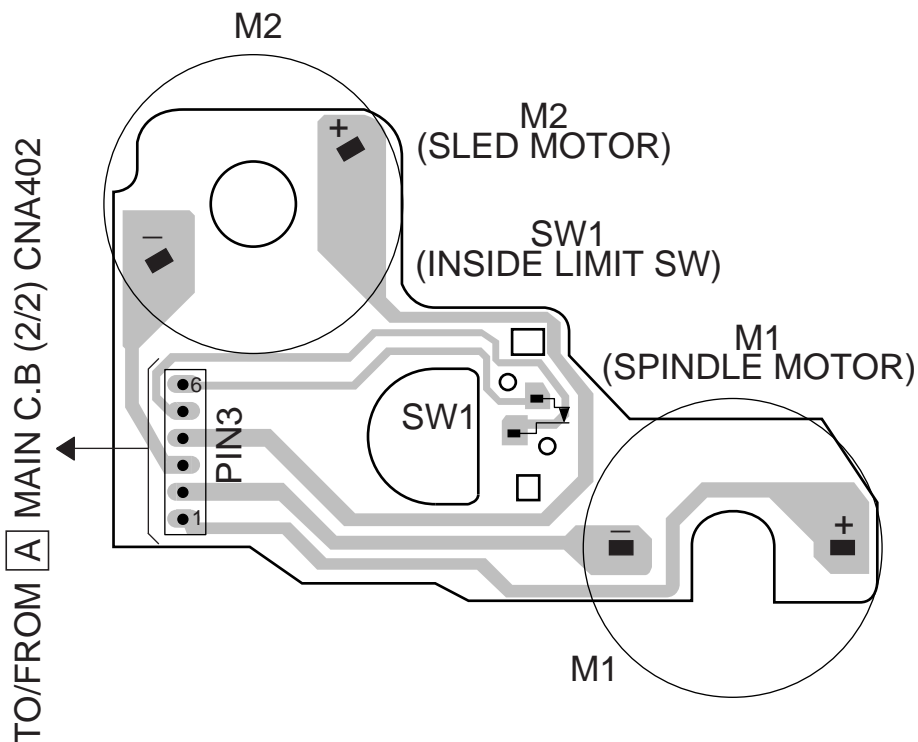




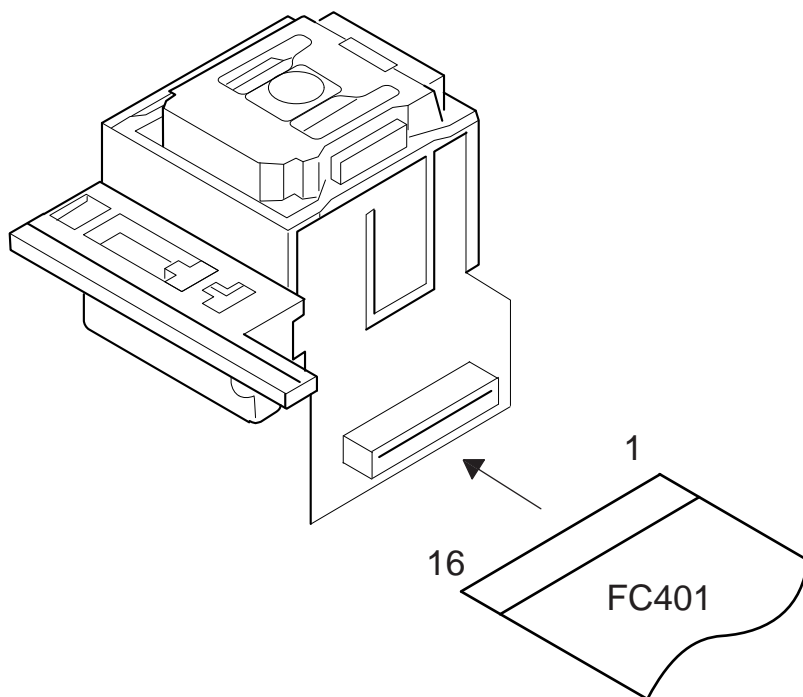


15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
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# I CD MOTOR C.B



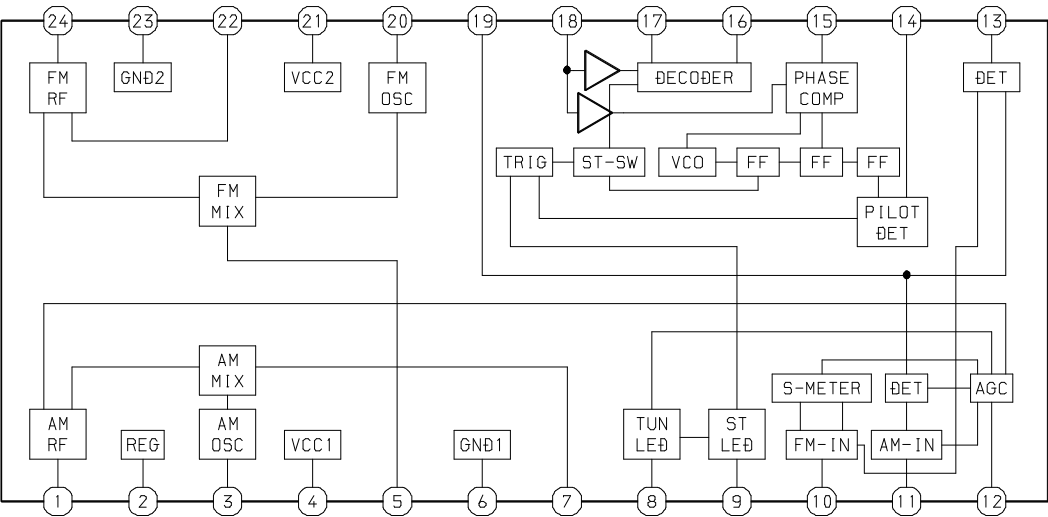
PICK UP ASSY  
SF-P101NR



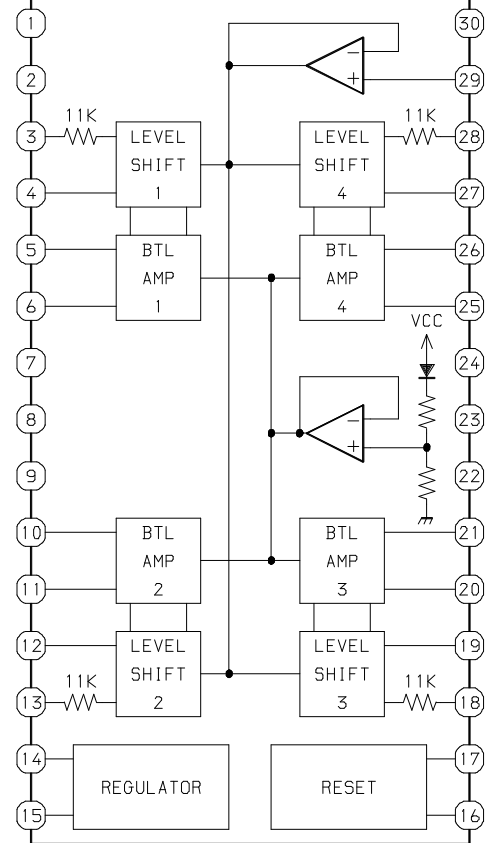
TO/FROM A MAIN C.B (2/2) CN401

IC BLOCK DIAGRAM

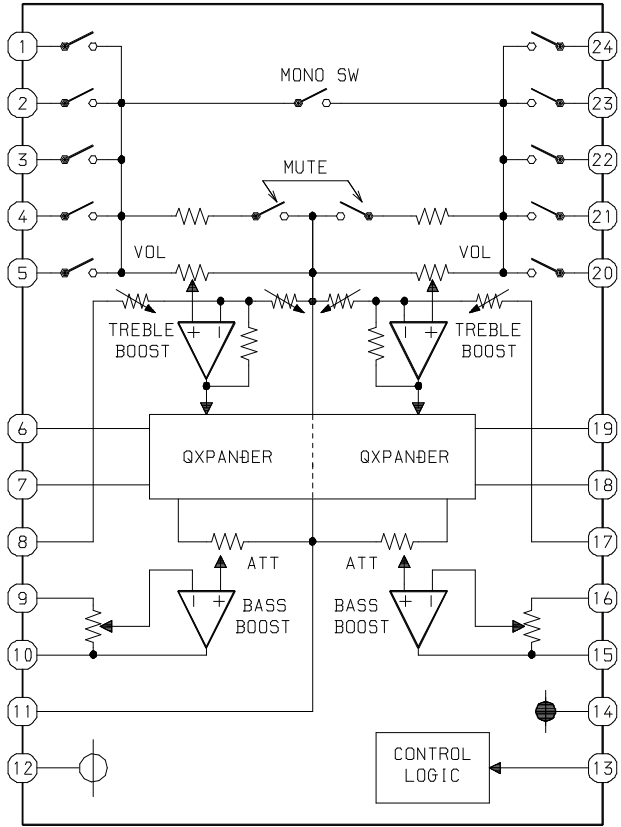
IC, LA1828



IC, LA6541D



IC, M61509FP



## IC DESCRIPTION

IC, LC78622ED

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input. ("L" is applied when not used.)
2	TAI	I	For PLL/Test input. A pull-down resistor is incorporated.
3	PDO	O	Phase comparison output to control the external VCO.
4	VVSS	–	Ground of the built-in VCO. Normally, 0V.
5	ISSET	I	For the connection of a resistor which adjusts the PDO output current.
6	VVDD	–	Power supply of the built-in VCO.
7	FR	I	Adjusts the VCO frequency range.
8	VSS	–	Ground of digital circuits. Normally, 0V.
9	EFMO	O	For slice level control/EFM signal output.
10	EFMIN	I	EFM signal input.
11	T2	I	Test input. A pull-down resistor is incorporated. Be sure to connect this to 0V.
12	CLV+	O	Disc motor control tri-state outputs.
13	CLV-		
14	$V/\bar{P}$	O	Output to monitor the automatic switching between the rough servo control and phase servo control. "H" :Rough servo, "L": Phase servo.
15	HFL	I	Track detection signal input. Schmitt trigger input.
16	TES	I	Track error signal input. Schmitt trigger input.
17	TOFF	O	Tracking off output.
18	TGL	O	Tracking gain switching output. "L" raises the gain.
19	JP+	O	Track jump control tri-state outputs.
20	JP-		
21	PCK	O	Monitors the clock signal for EFM data playback.4.3218MHz when the phase is locked.
22	FSEQ	O	Sync signal detection output. Goes "H" when the sync signal detected from the EFM signal matches the sync signal generated internally. (Not used)
23	VDD	–	Power supply of digital circuits.
24	SL+	I/O	General purpose input/output 1. Controlled by serial data command issued by the microprocessor.
25	SL–	I/O	General purpose input/output 2. Controlled by serial data command issued by the microprocessor.
26	NC	–	Not connected.
27	PUIN	I/O	CD pickup inside limit switch.
28	RW	I/O	Serial data command sled signal output terminal from microprocessor.
29	EMPH	O	Deemphasis monitor. "H": when playing a deemphasis disc. (Not used)
30	C2F	O	C2 flag output. (Not used)
31	DOUT	O	Outputs a digital OUT signal. (EIAJ format) (Not used)
32	T3	I	Test input. A pull-down resistor is incorporated. Be sure to connect this to 0V.
33	T4		
34	N.C	–	Not connected.
35	MUTEL	O	Lch 1-bit DAC/Lch muting output. (Not used)



Pin No.	Pin Name	I/O	Description
36	LVDD	–	Lch power supply.
37	LCHO	O	Lch output.
38	LVSS	–	Lch ground. Normally, 0V.
39	RVSS	–	Rch 1-bit DAC/Rch ground. Normally, 0V.
40	RCHO	O	Rch output.
41	RVDD	–	Rch power supply.
42	MUTER	O	Rch muting output. (Not used)
43	XVDD	–	Power supply of crystal oscillator.
44	XOUT	O	For the connection of a 16.9344 MHz crystal oscillator.
45	XIN	I	
46	XVSS	–	Ground of crystal oscillator. Normally, 0V.
47	SBSY	O	Subcode block sync signal output. (Not used)
48	EFLG	O	C1,C2,single,duplex correction monitor. (Not used)
49	PW	O	Output of subcodes P,Q,R,S,T,U and W. (Not used)
50	SFSY	O	Subcode frame sync signal output. Falls when the subcode is set to the standby state.(No used)
51	SBCK	I	Subcode read-out clock input. Schmitt trigger input.("L" is applied when not used.)
52	FSX	O	7.35 kHz sync signal output obtained by dividing the oscillator frequency. (Not used)
53	WRQ	O	Subcode Q standby output.
54	RWC	I	Read/write control input. Schmitt trigger input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input from the microprocessor.
57	$\overline{\text{CQCK}}$	I	Command input retrieval clock or subcode retrieval clock input from SQOUT. Schmitt trigger input.
58	RES	I	LC78622 reset input.
59	T11	O	Test output. Set to open (normally, "L" output.) (Not used)
60	16M	O	16.9344 MHz output. (Not used)
61	4.2M	O	4.236 MHz output.
62	T5	I	Test input. A pull-down resistor is incorporated. Be sure to connect to 0 V.
63	$\overline{\text{CS}}$	I	Chip select input. A pull-down resistor is incorporated.
64	TEST1	I	Test input with no pull-down resistor. Be sure to connect this to 0 V.

Pin No.	Pin Name	I/O	Description
1	FIN2	O	For the connection of the pickup photodiode. Addition to the FIN1 pin creates an RF signal and subtraction from it create an EF signal.
2	FIN1	O	For the connection of the pickup photodiode.
3	E	O	For the connection of the pickup photodiode. Subtraction from the F pin creates a TE signal.
4	F	O	For the connection of the pickup photodiode.
5	TB	I	Inputs the DC components in the TE signal.
6	TE–	O	For the connection of a resistor which sets the gain of the TE signal between this pin and the TE pin.
7	TE	O	TE signal output.
8	TESI	I	TES (track error sense) comparator input. The TE signal is passed through a BPF.
9	SCI	I	Shock detection input.
10	TH	I	Sets the time constant for the tracking gain.
11	TA	O	TA amp output.
12	TD–	I	Composes the tracking phase compensation constant between the TD and VR pins.
13	TD	O	Sets the tracking phase compensation.
14	JP	I	Sets the amplitude of the tracking jump signal (kick pulses).
15	TO	O	Tracking control signal output.
16	FD	O	Focusing control signal output.
17	FD–	I	Composes the focusing phase compensation constant between the FD and FA pins.
18	FA	O	Composes the focusing phase compensation constant between the FD- and FA- pins.
19	FA–	I	Composes the focusing phase compensation constant between the FA and FE pins.
20	FE	O	FE signal output.
21	FE–	I	For the connection of a resistor which sets the gain of the FE signal between this pin and the TE pin.
22	AGND	O	Ground of analog signals.
23	SP	O	Single-ended output of the signals input to the CV+ and CV- pins.
24	SPI	I	Spindle amp input.
25	SPG	I	For the connection of a resistor which sets the gain in the spindle 12cm mode.
26	SP–	I	For the connection of the spindle phase compensation constant with the SPD pin.
27	SPD	O	Spindle control signal output.
28	SLEQ	I	For the connection of sled phase compensation constant.
29	SLD	O	Sled control signal output.
30	SL–	I	Sled feed signal input from the microprocessor.
31	SL+		
32	JP–	I	Tracking signal input from the DSP.
33	JP+		
34	TGL	I	Tracking gain control signal input from the DSP. Low gain when TGL is "H".
35	TOFF	I	Tracking off control signal input from the DSP. Off when TOFF is "H".
36	TES	O	Outputs the TES signal to the DSP.

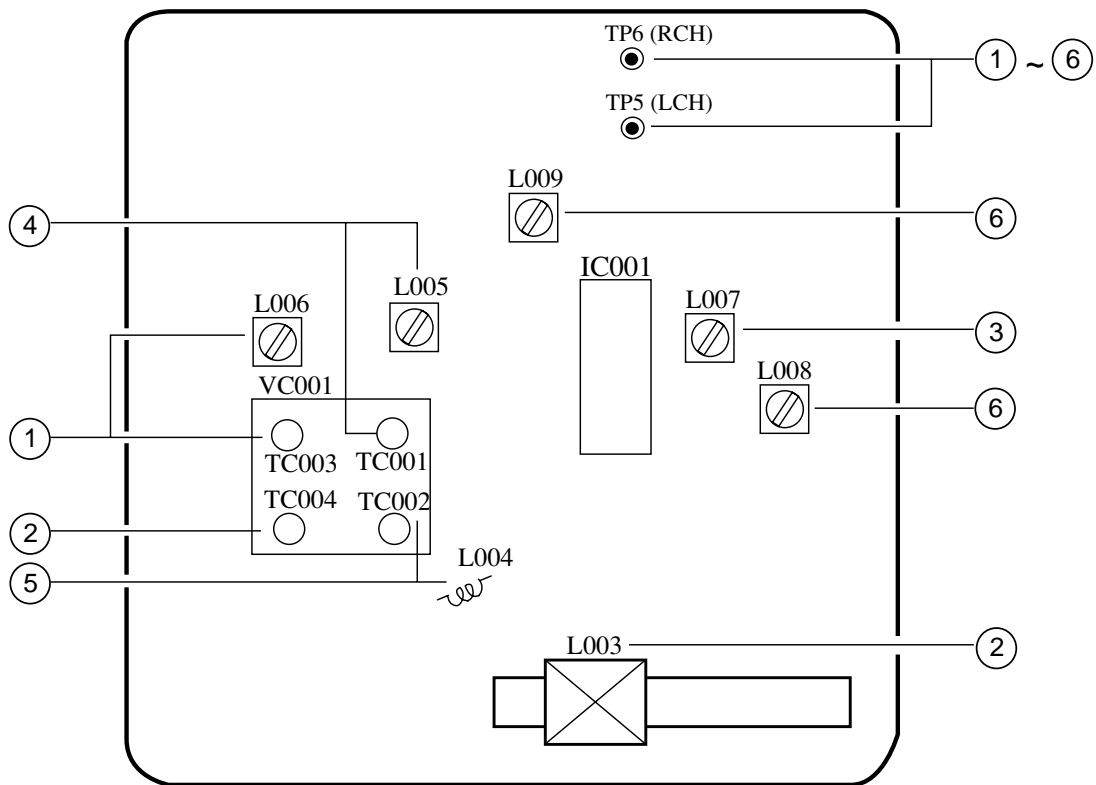
Pin No.	Pin Name	I/O	Description
37	HFL	O	The HFL (high frequency level) signal is used to judge whether the main beam is positioned on the pit or on the mirror.
38	SLOF	I	Sled servo off control input.
39	CV–	I	CLV error signal input from the DSP.
40	CV+		
41	RFSM	O	RF output.
42	RFS–	O	Sets the RF gain and the EFM signal's 3T compensation constant together with the RFSM pin.
43	SLC	O	The SLC (slice level control) signal is output to control the DSP's data slice level of the RF waveform.
44	SL1	I	Input to control the DSP's data slice level.
45	DGND	–	Ground of digital signals.
46	FSC	O	Output for the focus search smoothing capacitor.
47	TBC	I	The TBC (tracking balance control) signal sets the EF balance variation range.
48	NC	–	Not connected.
49	DEF	O	Disc defect detection output.
50	CLK	I	Reference clock input. 4.23 MHz is input from the DSP.
51	CL	I	Microprocessor command clock input.
52	DAT	I	Microprocessor command data input.
53	CE	I	Microprocessor chip enable input.
54	DRF	O	DRF (detect RF) is an output to detect the RF level.
55	FSS	I	The FSS (focus search select) signal switches the focus search modes (+/-search / +search with respect to the reference voltage).
56	VCC2	–	VCC of servo and digital circuits.
57	REF1	–	For the connection of bypass capacitor for the reference voltage.
58	VR	O	Reference voltage output.
59	LF2	–	Sets the time constant for disc defect detection.
60	PH1	–	For the connection of a capacitor to hold the RF signal peak.
61	BH1	–	For the connection of a capacitor to hold the RF signal bottom.
62	LDD	O	APC circuit output.
63	LDS	I	APC circuit input.
64	VCC1	–	VCC of RF signal circuits.

## IC, LC865516A-5P16

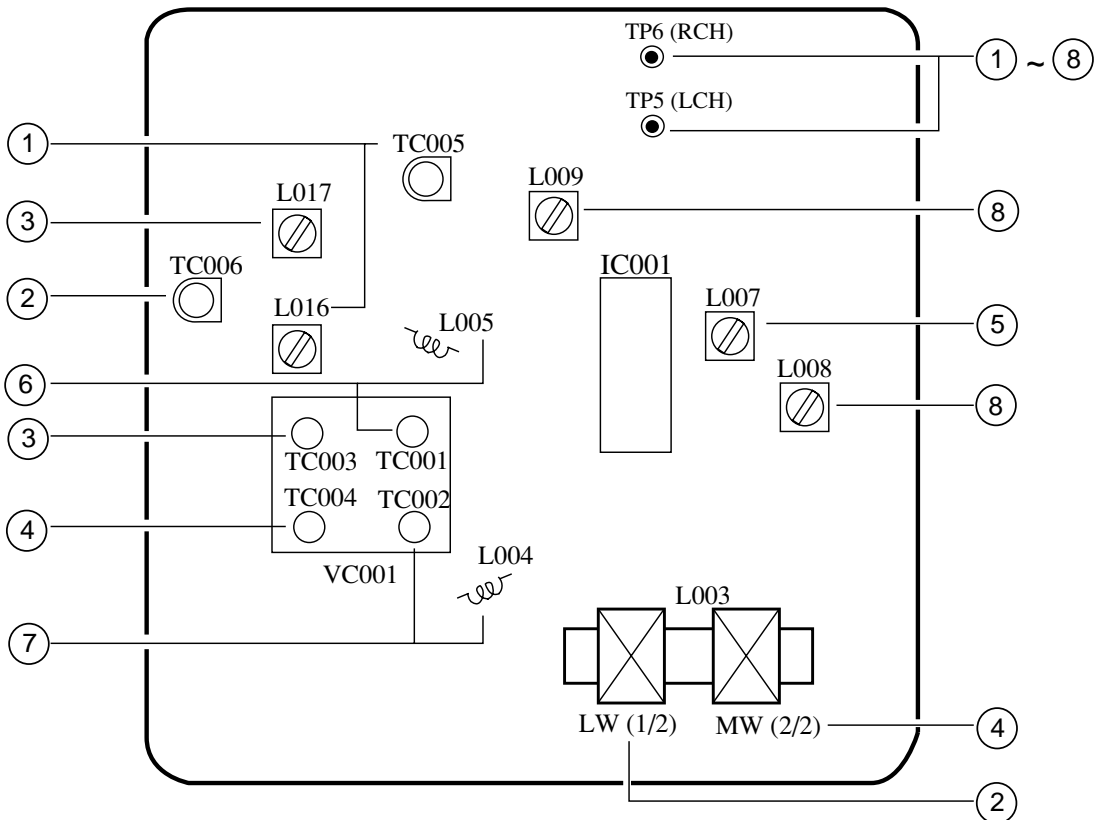
Pin No.	Pin Name	I/O	Description
1	SEG E	O	SEG E control.
2	SEG F	O	SEG F control.
3	SEG G	O	SEG G control.
4	NC	—	Not connected.
5	I-RST	I	Microprocessor reset input.
6	XT1 (IN)	I	Connected to an external 32.768 kHz crystal oscillator.
7	NC	—	Not connected.
8	XT2 (OUT)	O	Connected to an external 32.768 kHz crystal oscillator.
9	VSS	—	GND.
10	CF1 (IN)	I	Connected to an external 5.76 MHz ceramic filter.
11	CF2 (OUT)	O	Connected to an external 5.76 MHz ceramic filter.
12	VDD	—	Microprocessor power supply (+5 V).
13	I-KEY0	I	Key AD input. (AD)
14	I-KEY1	I	Key AD input. (AD)
15	I-MOTOR	I	Deck status input. (AD)
16	I-CD SW	I	CD door switch status input.
17	O-SHIFT	O	Main clock shift output.
18	NC	—	Not connected.
19	O-BASS LED	O	BASS LED ON/OFF control output. (Not used)
20	O-QS LED	O	Q sound LED ON/OFF control output.
21	O-SFT LED	—	Not used.
22	I-DRF	I	CD RF level detection input.
23	I-WRQ	I	CD subcode Q standby input.
24	NC	—	Not connected.
25	I-REM	I	Remote control input.
26	O-CD ON	O	CD power control output.
27	O-TU ON	O	TU power control output.
28	O-P.CONT	O	The main power supply control output.
29	NC	—	Not connected.
30	O-BEAT	O	Beat sw control output.
31	O-MUTE	O	Main mute output.
32	O-DIGIT	O	7-segment LED power supply control output.
33	O-SEG REPEAT	O	REPEAT LED ON/OFF control output.
34	O-COIN	O	CD command output.
35	I-SQOUT	I	CD subcode Q input.
36	O-CQCK	O	CD command/CLK for subcode.
37	O-RWC	O	CD read/write control output.
38	O-DATA	O	Data output to M61509FP.
39	O-CD LED	O	LED ON/OFF control output for the CD function.
40	O-TU LED	O	LED ON/OFF control output for the TU function.
41	O-TA LED	O	LED ON/OFF control output for the TA function. (Not used)

Pin No.	Pin Name	I/O	Description
42	NC	—	Not connected.
43	$\overline{\text{SEG DP}}$	O	SEG DP control.
44	$\overline{\text{SEG A}}$	O	SEG A control.
45	$\overline{\text{SEG B}}$	O	SEG B control.
46	$\overline{\text{SEG C}}$	O	SEG C control.
47	$\overline{\text{SEG D}}$	O	SEG D control.
48	NC	—	Not connected.

**B** TUNER C.B <LH, HA>



**B** TUNER C.B <K>



< RADIO SECTION > <LH, HA>

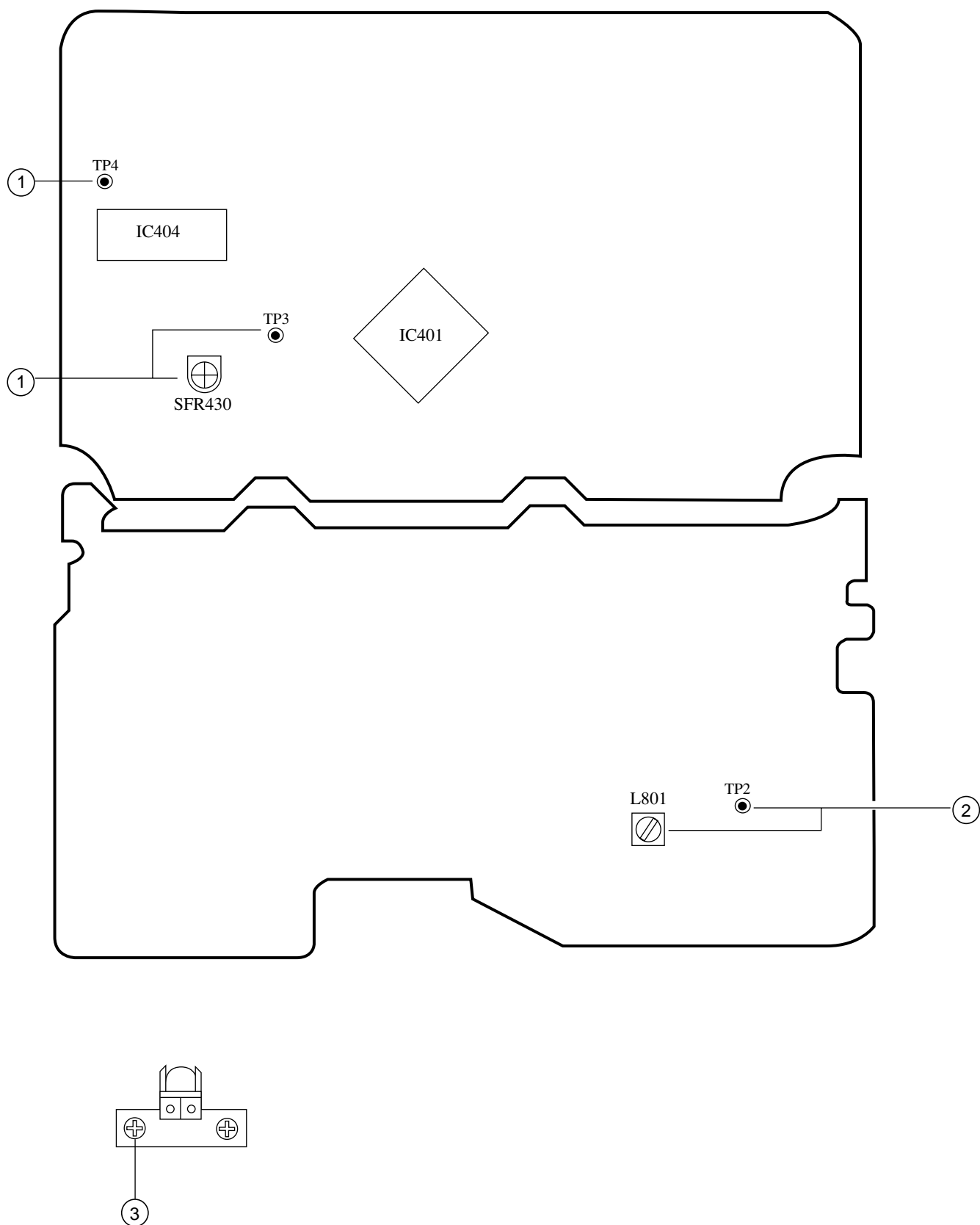
1. AM Frequency Range Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L006, TC003
  - Method:  
L006 ..... 517kHz  
TC003 ..... 1750kHz
2. AM Tracking Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L003, TC004
  - Method:  
L003 ..... 600kHz  
TC004 ..... 1400kHz
3. AM IF Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L007
  - Method:  
L007 ..... 455kHz
4. FM Frequency Range Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L005, TC001
  - Method:  
L005 ..... 87MHz  
TC001 ..... 109MHz
5. FM Tracking Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L004, TC002
  - Method:  
L004 ..... 88MHz  
TC002 ..... 108MHz
6. FM IF Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L008, L009
  - Method:  
L008, L009 ..... 10.7MHz

< RADIO SECTION > <K>

1. LW Frequency Range Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L016, TC005
  - Method:  
L016 ..... 145kHz  
TC005 ..... 295kHz
2. LW Tracking Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L003 (1/2), TC006
  - Method:  
L003 (1/2) ..... 150kHz  
TC006 ..... 285kHz
3. MW Frequency Range Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L017, TC003
  - Method:  
L017 ..... 515kHz  
TC003 ..... 1635kHz
4. MW Tracking Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L003 (2/2), TC004
  - Method:  
L003 (2/2) ..... 600kHz  
TC004 ..... 1400kHz
5. AM IF Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L007
  - Method:  
L007 ..... 455kHz
6. FM Frequency Range Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L005, TC001
  - Method:  
L005 ..... 87.4MHz  
TC001 ..... 108.3MHz
7. FM Tracking Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L004, TC002
  - Method:  
L004 ..... 88MHz  
TC002 ..... 108MHz
8. FM IF Adjustment
  - Test Point: TP5 (LCH), TP6 (RCH)
  - Adjustment location: L008, L009
  - Method:  
L008, L009 ..... 10.7MHz



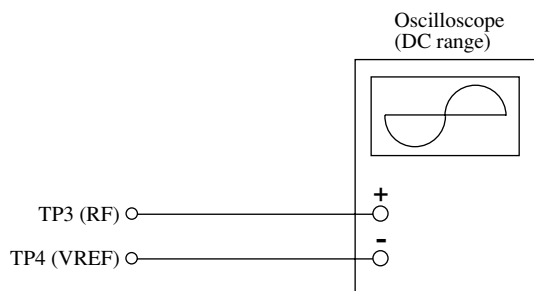
**A** MAIN C.B



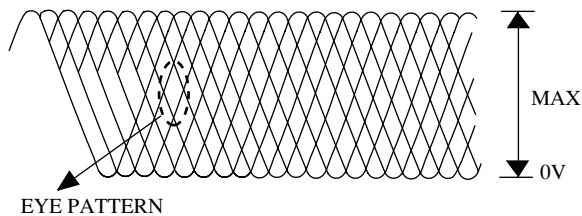
## < CD SECTION >

### 1. Focus Bias Adjustment

Make the focus bias adjustment when replacing and repairing the optical block.



- 1) Connect an oscilloscope to the test point TP3 (RF) and TP4 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR430 so that RF signal of the test point TP3 (RF) is MAX and CLEAREST.



must be CLEAR and MAX

VOLT / DIV: 200mV  
TIME / DIV: 0.5μs

## < TAPE RECORDER SECTION >

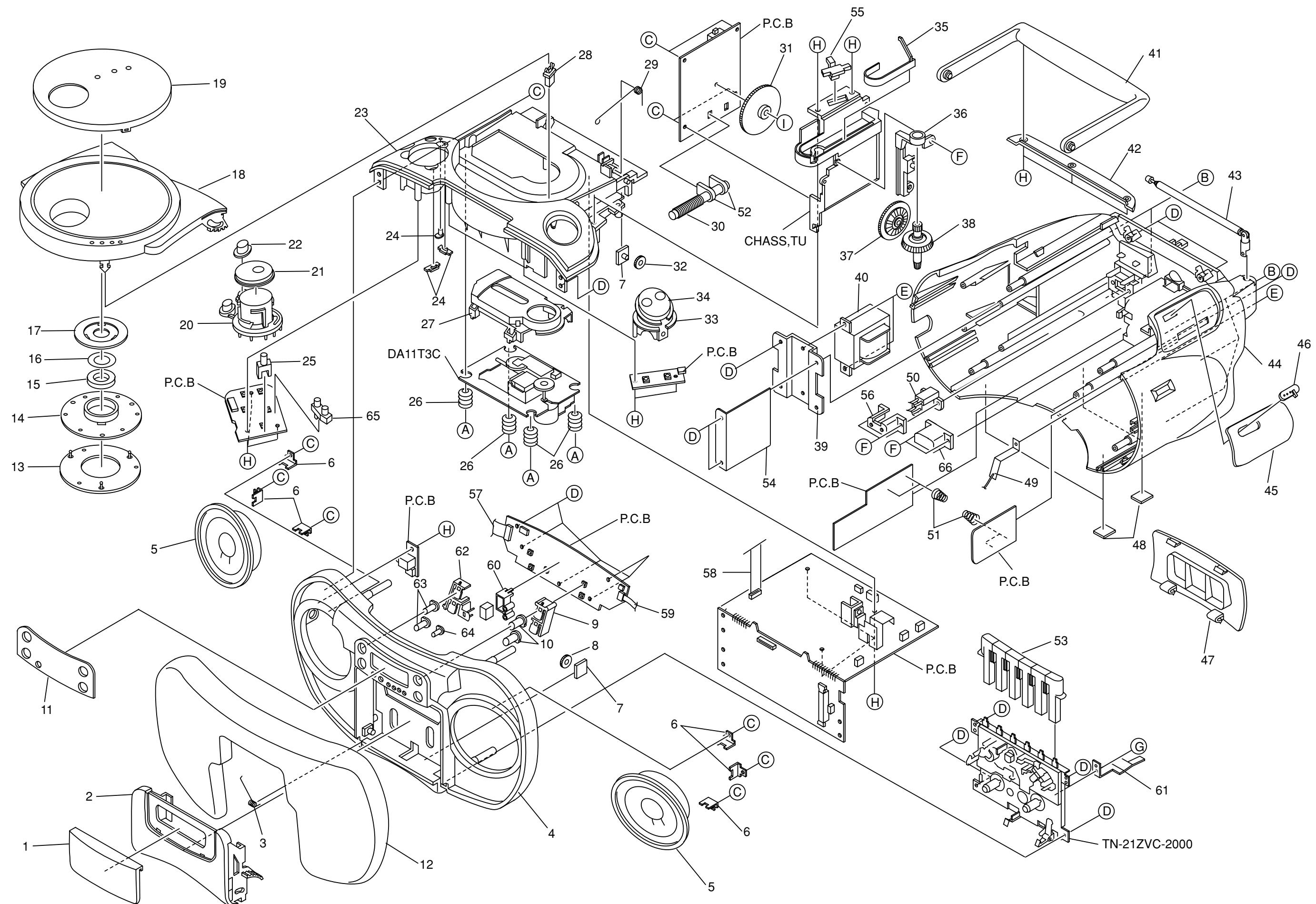
### 2. Bias Adjustment

- Test tape: TTA-630
  - Test Point: TP2
  - Adjustment location: L801
  - Method:
- L801 ..... 85kHz±2kHz

### 3. Azimuth Adjustment

- Condition:
- Test tape: TTA-320
  - Test point: PHONE JACK
  - Adjustment location: Azimuth adjustment screw

Method: Play back the test tape and adjust the screw so that the output is maximum.



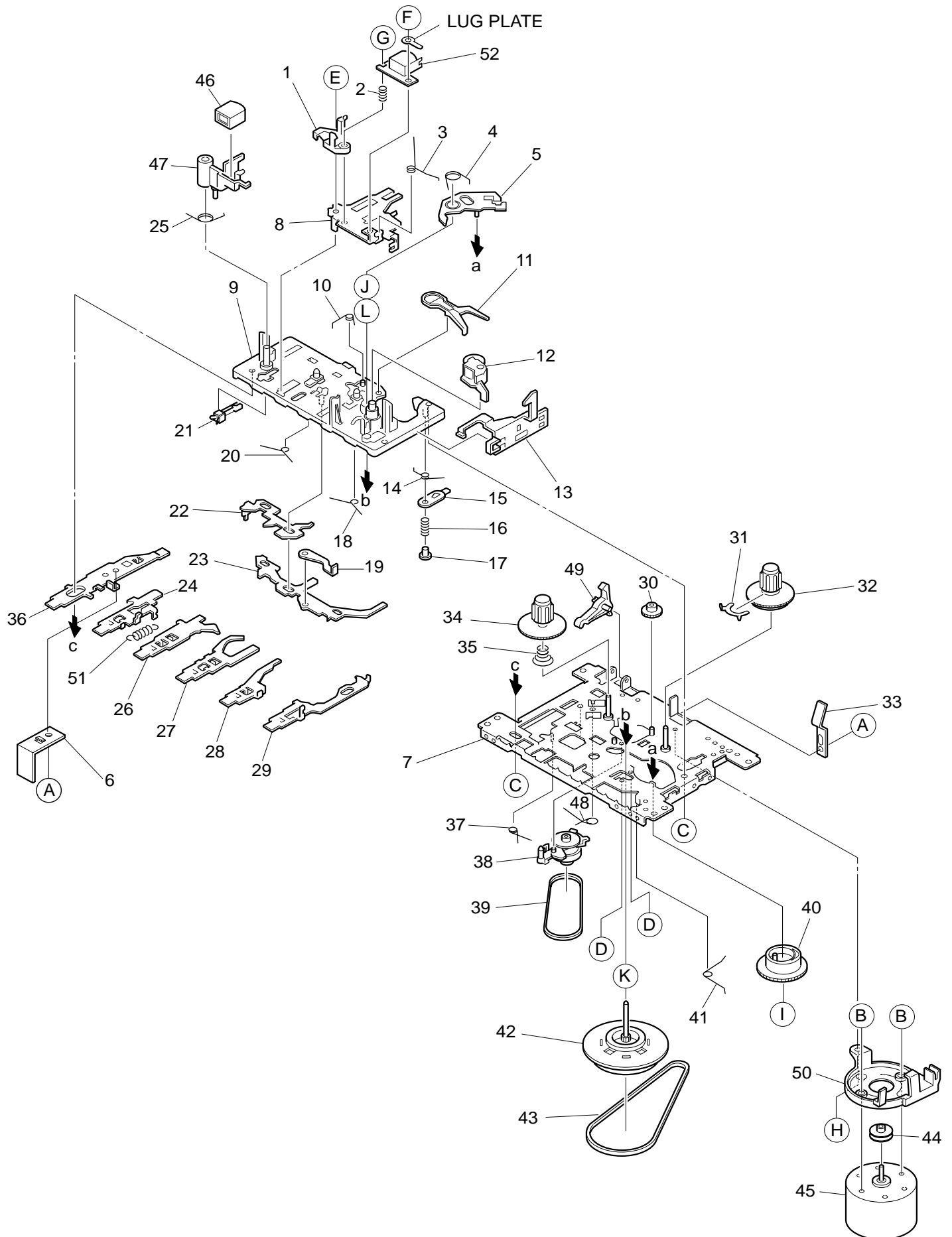
# MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CDB-006-010		WINDOW, CASS<KSC, LHSC, HASCC>	34	8A-CDB-056-010		BTN, VOL [D] <LHDC>
1	8A-CDB-043-010		WINDOW, CASS [G] <LHGC>	35	8A-CDB-022-010		POINTER, TU
1	8A-CDB-052-010		WINDOW, CASS [D] <LHDC>	36	8A-CDB-209-010		HLDR, BTN TUN
2	8A-CDB-008-010		BOX, CASS<KSC, LHSC, HASCC>	37	8A-CDB-211-010		GEAR, MID TUN
2	8A-CDB-045-010		BOX, CASS [G] <LHGC>	38	8A-CDB-011-010		BTN, TUN
2	8A-CDB-054-010		BOX, CASS [D] <LHDC>	39	8A-CDB-219-010		HLDR, TRAN
3	8A-CDB-204-010		SPR-T, CASS	40	8A-CDB-653-010		PT, E 2.5W EI48X23<KSC>
4	8A-CDB-001-010		CABI, FR	40	8A-CDB-651-010		PT, H 2.5W EI48X23<EXCEPT KSC>
5	88-CD8-622-010		SPKR, F 77 70HM 3W	41	8A-CDB-019-010		HANDL, GRIP
6	8Z-CDB-208-010		HLDR, SPKR	42	8A-CDB-018-010		COVER, HANDL
7	8A-CDB-205-010		PLATE, OIL DUMP	43	8Z-CH4-640-010		ANT, ROD
8	87-063-164-010		OIL-DMPR 80	44	8A-CDB-002-010		CABI, REAR
9	8A-CDB-206-010		BASE, CD	45	8A-CDB-027-010		WINDOW, TU EZ<KSC>
10	8A-CDB-016-010		BTN, CD	45	8A-CDB-007-010		WINDOW, TU<LHSC, HASCC>
11	8A-CDB-004-010		WINDOW, DISP<KSC, LHSC, HASCC>	45	8A-CDB-044-010		WINDOW, TU [G] <LHGC>
11	8A-CDB-041-010		WINDOW, DISP [G] <LHGC>	45	8A-CDB-053-010		WINDOW, TU [D] <LHDC>
11	8A-CDB-050-010		WINDOW, DISP [D] <LHDC>	46	8A-CDB-217-010		LEVER, BAND
12	8A-CDB-023-010		GRILLE, SPKR<KSC, LHSC, HASCC>	47	8A-CDB-020-010		LID, BATT
12	8A-CDB-049-010		GRILLE, SPEAKER [G] <LHGC>	48	86-CT9-223-010		CUSH, FOOT
12	8A-CDB-058-010		GRILLE, SPKR [D] <LHDC>	49	8A-CDB-207-010		HLDR, ANT
13	8Z-CT6-213-010		BASE, CHUCK	50	87-A60-178-010		JACK, AC E W/SW
14	8Z-CT6-214-010		RING, CHUCK	51	8A-CDB-215-010		SPR-T, BATT
15	87-036-368-010		MAGNET	52	8A-CDB-220-010		HLDR, M66 BAR ANT
16	86-CT9-222-010		PLATE, MAGNET	53	8A-CDB-015-010		KEY, CASS
17	86-CT9-217-010		HLDR, CHUCK A(S)	54	8A-CDB-216-010		PLATE, TRAN
18	8A-CDB-009-010		BOX, CD<KSC, LHSC, HASCC>	55	8A-CDB-010-010		BTN, TU
18	8A-CDB-046-010		BOX, CD [G] <LHGC>	56	87-A90-086-010		COVER, AC JACK
18	8A-CDB-055-010		BOX, CD [D] <LHDC>	57	8A-CDB-618-010		FF-CABLE, 16P 1.25 FR-MAIN
19	8A-CDB-005-010		WINDOW, CD<KSC, LHSC, HASCC>	58	8A-CDB-623-010		FF-CABLE, 16P 1.0 CD-RF
19	8A-CDB-042-010		WINDOW, CD [G] <LHGC>	59	8A-CDB-619-010		FF-CABLE, 8P 1.25 CD-FR
19	8A-CDB-051-010		WINDOW, CD [D] <LHDC>	60	8A-CDB-208-010		HLDR, LED SA/SC36
20	8A-CDB-213-010		BASE, FUNC	61	8A-CDB-212-010		PLATE, REC
21	8A-CDB-013-010		BTN, FUNC<KSC, LHSC, HASCC>	62	8A-CDB-206-010		BASE, CD
21	8A-CDB-048-010		BTN, FUNC [G] <LHGC>	63	8A-CDB-016-010		BTN, CD
21	8A-CDB-057-010		BTN, FUNC [D] <LHDC>	64	8A-CDB-016-010		BTN, CD
22	8A-CDB-014-010		BTN, QSOUND	65	8A-CDB-203-010		HLDR, LED FUNC
23	8A-CDB-003-010		CHAS, CD	66	87-A91-369-010		SW, AC SL222 SD KGA41700<EXCEPT KSC>
24	8A-CDB-021-010		LENS, FUNC	A	81-CD5-204-010		SCREW CD
25	8A-CDB-203-010		HLDR, LED FUNC	B	87-651-104-410		VT1+3-30
26	88-CH6-220-010		CUSHION, CD A	C	87-741-096-410		UT2+3-10
27	8Z-CT9-064-010		PANEL CD	D	87-751-097-410		SCREW 3X12
28	87-036-389-010		SW, PUSH LOCK	E	87-261-096-410		SCREW, V+3-10 GLD
29	8A-CDB-218-010		SPR-T, CD	F	87-741-074-410		UT2+2.6-8
30	8A-CD9-661-010		BAR-ANT, MW/LW 3B-ACD(COI) <KSC>	G	87-261-032-410		V+2-3 GLD
30	8A-CD9-660-010		BAR-ANT, MW 2B-ACD(COI) <EXCEPT KSC>	H	87-751-095-410		VT2+3-8 W/O
31	8A-CDB-210-010		DRUM, GEAR	I	87-745-094-410		UT2+3-6
32	87-063-165-010		OIL-DMPR 150				
33	8A-CDB-214-010		BASE, VOL				
34	8A-CDB-012-010		BTN, VOL<KSC, LHSC, HASCC>				
34	8A-CDB-047-010		BTN, VOL [G] <LHGC>				

## COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange		

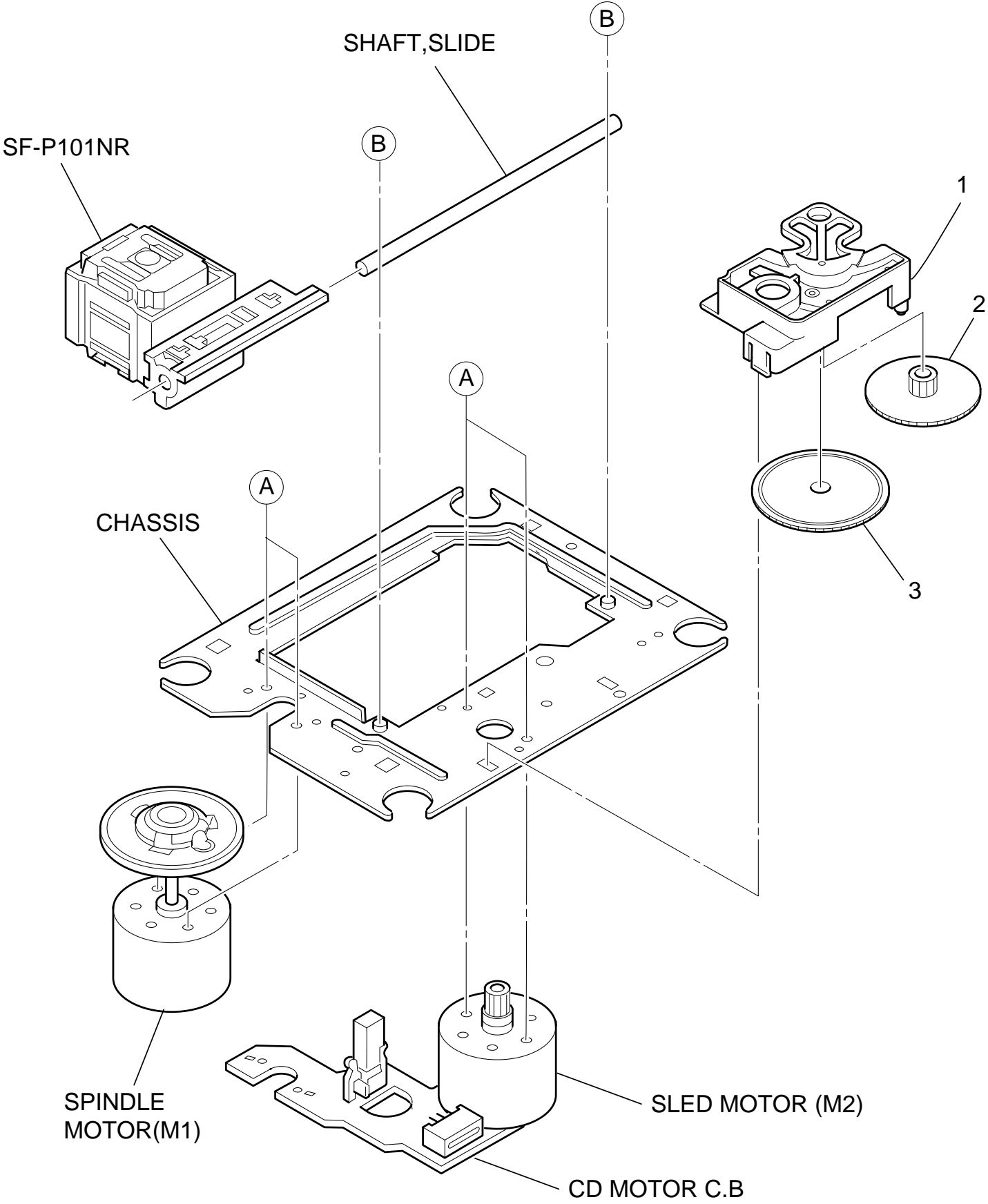
# TAPE MECHANISM EXPLODED VIEW 1 / 1



# TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE	36	S1-921-140-030		REC BUTTON LEVER
2	S1-821-030-070		AZIMUTH SPRING	37	S1-921-140-170		P.S.LEVER SPRING
3	S1-921-030-090		PANEL P SPRING	38	S1-921-073-040		RF CLUTCH ASSY
4	S1-921-260-050		GEAR PLATE SPRING	39	S1-921-070-030		RF BELT
5	S1-921-265-020		GEAR PLATE ASSY	40	S1-921-260-020		CAM GEAR
6	S1-510-020-020		REC SPRING PLATE	41	S1-921-140-160		E ACTUATOR SPRING
7	S1-921-015-010		CHASSIS ASSY	42	S1-921-093-210		FLYWHEEL ASSY
8	S1-921-030-110		HEAD PANEL	43	S1-921-090-380		MAIN BELT
9	S1-921-143-160		BASE ASSY	44	S1-921-120-590		MOTOR PULLEY
10	S1-921-141-8A0		M CONTROL SPRING	45	S6-002-030-220		MOTOR EG530AD-2B
11	S1-921-260-4A0		SENSING LEVER	46	S6-209-100-100		E HEAD PH-K380-MS1
12	S1-921-043-100		PINCH ROLLER ARM ASSY	47	S1-921-030-050		MG ARM
13	S1-921-130-010		EJECT SLIDE LEVER	48	S1-921-140-210		REC BUTTON LEVER SPRING
14	S1-921-141-3A0		P CONTROL SPRING	49	S1-821-100-690		RECORD SAFETY LEVER
15	S1-921-140-550		PAUSE LEVER(E)	50	S1-821-128-9A0		MOTOR BRACKET
16	S1-921-140-120		PAUSE LEVER SPRING	51	S1-821-010-500		PLAY BUTTON LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER	52	S6-201-011-110		HEAD,RP7442ES-0951
18	S1-921-140-150		BUTTON LEVER SPRING(B)	A	S9-P04-200-310		C TAPPING SCREW 2-3
19	S1-821-011-590		E KICK LEVER	B	S1-921-120-020		MOTOR COLLER SCREW
20	S1-921-141-070		BUTTON LEVER SPRING(A)	C	S9-B10-200-510		P TAPPING BIND SCREW M2-5
21	S6-401-011-490		LEAF SW MSW-1541T	D	S9-C07-204-510		SCREW,TAPPING(CAMERA)M2-4.5
22	S1-921-140-090		SWITCH ACTUATOR	E	S9-P01-200-610		SCREW,M2-6
23	S1-921-140-080		PUSH BUTTON ACTUATOR	F	S9-B01-200-310		(+)BIND SCREW M2-3
24	S1-921-140-190		PLAY BUTTON LEVER	G	S9-F08-200-710		AZIMUTH SCREW M2-7
25	S1-921-030-100		MG ARM SPRING	H	S1-921-120-030		MB SCREW
26	S1-921-140-040		REW BUTTON LEVER	I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
27	S1-921-140-050		FF,BUTTON REVER	J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
28	S1-921-140-060		STOP BUTTON LEVER	K	S9-W01-400-100		P WASHER 2-3.5-0.4
29	S1-921-140-600		PAUSE BUTTON LEVER	L	S9-W01-130-200		P WASHER 2.1-4-0.13
30	S1-821-100-700		FF GEAR				
31	S1-921-050-060		SENER				
32	S1-921-053-100		TAKE UP REEL ASSY				
33	S1-829-100-010		PACK SPRING				
34	S1-921-050-150		S REEL HUB				
35	S1-921-050-220		BACK TENSION SPRING				

CD MECHANISM EXPLODED VIEW 1 / 1








## CD MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S2-121-A28-400		COVER GEAR
2	S2-511-A21-000		GEAR MIDDLE
3	S2-511-A21-100		GEAR,DRIVE
A	S1-PN2-03R-0SE		SCR PAN PCS 2-3
B	87-261-073-410		SCR S-TPG FLT 2.6-6
ALL	M8-ZZK-E90-070		DA11T3C

## ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CDB-905-010		IB,K(E)FM<K >
1	8A-CDB-902-010		IB,LH(ESP)FM<EXCEPT K >
	2	87-A80-119-010	AC CORD SET ASSY,AZ<HA>
	2	87-A80-036-010	AC CORD SET ASSY,E W/FLTR VOL<EXCEPT HA>
	3	87-099-726-010	PLUG,ADPTR CONV(K)<K >
	4	87-A91-017-010	PLUG,CONVERSION JT-0476<EXCEPT K >

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)  
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